

# Looping through files

In this example we will loop through files and display some of their information.

```
import cdms, sys, os

path=sys.prefix+'/sample_data/'

# List files in sample_data directory
my_files=os.listdir(path)

# Now loops through values in my_files and assign them
# one after the other to file

for file in my_files:
    # Deal only with NetCDF files
    if file[-3:]==' .nc':
        print 'Dealing with file:',file
        f=cdms.open(path+file)

        variables=f.listvariables()

    # Now loops through all the variables in the file and print their shape
    for v in variables:
        # Create a reference to file variable
        V=f[v]
        # \t is to add a tabulation
        print '\t',v,'shape is:',V.shape
```